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10/621,450	07/18/2003	Tsutomu Ohishi	240490US2	1117	
22859 7590 0825,2008 OBLON, SPIVAK, MCCLEILAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			TRUONG, LECHI		
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
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## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

### Application No. Applicant(s) 10/621,450 OHISHI ET AL. Office Action Summary Examiner Art Unit LECHI TRUONG 2194 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 18 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4.8-15.19-26 and 30-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-4,8-15,19-26 and 30-34 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application 3) Information Disclosure Statement(s) (PTO/S6/06)

Paper No(s)/Mail Date \_

6) Other:

### DETAILED ACTION

 Claims 1-4, 8-15, 19-26, 30-34 are presented for the examination. Claims 5-7, 16-18, 27-29 are canceled.

#### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/18/2008 has been entered.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 12, 23, 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2) and further in view of Coveley et al (US. 6,873620B1).

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As to claim 1, Lee teaches the invention substantially as claimed including: an application (client application, col 2, ln 8-11), a function call (application programming interface, col 2, ln 7-10), an control service (workflow engine, col 2, ln 10-16/server, col 2, ln 60-65), an application for performing processes on image formation and an control service for performing system side processes according to a function call from the application (col 2, ln 10-16), a wrapping part (a Java native Interface wrapper, col 2, ln 10-15), the convert function (native code, col 2, ln 10-16), a wrapping part for converting a function called by the application, and performing a function call to the control service by using the converted function (col 2, ln 10-16).

Lee does not explicitly teach image, a platform that exists between the application and the hardware resources, the platform including an operating system and at least one control service to control an execution of each requested process of the hardware resources. However, Pace teaches image (to move the SC asset from the HTTP server to the HTTP client. These boundaries may define an asset as a SC asset. According to one embodiment of the present invention, an SC asset may include, for example, an HTML file for a Web page, an image (e.g., a JPEG image), a movie, an animation, and/or an audio file (e.g., an MP3 file), col 37, ln 3-9/ FIG. 1A is a block diagram illustrating a general middleware computer system 160 with well-known computer hardware 100, a general network operating system 102 (e.g., Microsoft Windows NT.TM.), a middleware platform 104 (e.g., Microsoft.RTM. Commerce Server), a transactional operating system 106 (e.g., Microsoft.RTM. Transaction Server--"MTS"), and a given application program 108 (e.g., an online ticketing sales application), col 5, ln 44-60).

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It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee with Pace to incorporate the feature of image because this allows an different applications can be transformed and/or executed on various tires of the network.

Lee and Pace do not teach a virtual application service that is configured to operate as a client process for the service and to operate as a server process for the application, wherein the wrapping part is included in the virtual application service. However, Coveley teaches a virtual application service that is configured to operate as a client process for the service and to operate as a server process for the application, wherein the wrapping part is included in the virtual application service (the communication server includes virtual devices communicating with the communication networks and virtual gateway bridging the virtual networks. The virtual gateway accesses the knowledge base and converts protocols of the messages. Preferably, the virtual gateway includes a preprocessor, a processor and a postprocessor. The preprocessor examines each incoming message to locate target logical connection information determining the target destination for the incoming message. The processor converts the protocol of each incoming message, where appropriate, based on the target logical connection information. The postprocessor wraps each message received from the processor with headers, where appropriate, col 1, ln 59-67/ Fig. 8/ the virtual gateway 284 is better illustrated. Virtual gateway 284 includes a preprocessor 300 receiving input from a virtual device VD (either the virtual host 280 or the virtual terminal 282) that receives logical messages from a sending physical device 14. The preprocessor 300 communicates with the knowledge base 286 and with a processor 302. Processor 302 also communicates with the knowledge base 286 as well as with a postprocessor

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304. The postprocessor 304 communicates with the knowledge base 286 and provides output to a virtual device VD (either the virtual host 280 or the virtual terminal 282). The virtual device VD in turn sends a logical message to a receiving physical device 14, col 7, In 41-55).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee and Pace with Coveley to incorporate the feature of a virtual application service that is configured to operate as a client process for the service and to operate as a server process for the application, wherein the wrapping part is included in the virtual application service because this provides a novel communication server to enhance communications connectivity in wireless and/or land-line networks and to provide a novel communication system incorporating the same.

As to claims 12, 23, 34, they are apparatus claim 1; therefore, they are rejected for the same reason as claim 1 above.

4. Claims 2, 3, 13, 14, 24, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2) in view of Coveley et al (US. 6,873620B1), as applied to claim 1 above, and further in view of Lam et al (US. Patent 5,926,636).

As to claim 2, Lee, Pace and Coveley do not teach there is a version difference between the function used by the application for the control service and a corresponding function in the control service. However, Lam teaches there is a version difference between the function used by the application for the control service and a corresponding function in the control service (If

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comparison of the version of the application programming interface in the message buffer with a version of an application programming interface on the second computer ... if the version are incompatible, col 5, ln 26-33).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee, Pace and Coveley with Lam to incorporate the feature of a version difference between the function used by the application for the control service and a corresponding function in the control service because this supports different versions of application programming interfaces by remote procedure call modules on client and servers computers.

As to claim 3, Lam teaches wherein the wrapping part determines whether there is the version difference by referring to information indicating that a version of the corresponding function in the control service has been changed (col 4, ln 22-27/ col 6, ln 12-20/ col 7, ln 25-31/ col 11, ln 13-20).

As to claims 13, 14, 24, 25, they are apparatus claims 2, 3; therefore, they are rejected for the same reasons as claims 2, 3 above.

5. Claims 4, 15, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2), in view of Coveley et al (US. 6,873620B1), as applied to claim 1 above, and further in view of Nakamura et al (US. Patent 5,987529).

As to claim 4, Lee, Pace and Coveley do not teach converts the function by adding at least a dummy function or at least an argument if the number of functions or the number of arguments is different between the function used in the application for the control service and the corresponding function in the control service. However, Nakamura teaches converts the function by adding at least a dummy function or at least an argument if the number of functions or the number of arguments is different between the function used in the application for the control service and the corresponding function in the control service (it is determined whether the code which is the argument of the selector mismatch handler selectorMismatchHandler is equal to newcode (step 260). If the code and newcode are different the code which is the argument of the vmicall instruction is replaced with newcode (step 270). In the previous example, the code was 1. If the newcode assigned in step 240 is 3, vmicall (26,1) is rewritten to vmicall (26,3), col 9, and In 12-20).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee, Pace and Coveley with Nakamura to incorporate the feature of adding at least a dummy function or at least an argument if the number of functions or the number of arguments is different between the function because this allows the collective recovery processing of inconsistencies can be avoided, the method invoking can be speeded up and memory efficiency can be increased.

As to claims 15, 26, they are apparatus claim 4; therefore, it is rejected for the same reason as claim 4 above.

6. Claims 8, 9, 10, 11, 19-22, 30-33 are rejected under 35 U.S.C. 103(a) as being

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unpatentable over Lee et al (US 7,047535 B2) in view of Pace et al (US. Patent 7,181731 B2), in view of Coveley et al (US. 6,873620B1), as applied to claim 1 above, and further in view of Hamilton et al (US 2003/0177283 A1).

As to claim 8, Lee, Pace, Coveley do not teach a version check part for determining whether a version of a set of functions used by the application is within a predetermined range that the application service can support. However, Hamilton teaches a version check part for determining whether a version of a set of functions used by the application is within a predetermined range that the application service can support (A server examines the requested version number and compares it against the versions it supports. If the requested version is the range of version supported by the server supported by the server, the acceptance of the version is indicated in a subsequent SessOpenConf message, para [0121], In 4-10).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Lee, Pace, Coveley with Hamilton to incorporate the feature of a version check part for determining whether a version of a set of functions used by the application is within a predetermined range that the application service can support because this allows an application to monitor a status of other applications connected to the control process of the MSSP.

As to claim 9, Hamilton teaches the version check part obtains the version of the set of the functions from the application, and determines whether the version is within the predetermined range by referring to information including the predetermined range (para [0121], In 4-10/ para [1029], In 1-10).

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As to claim 10, Hamilton teaches a version check part for determining, function by function, whether a version of a function used by the application for the virtual application service is within a predetermined range that the virtual application service can support (para [0121], In 4-10).

As to claim 11, Hamiltion teaches the version check part obtains the version of the function from the application, and determines whether the version is within the predetermined range by referring to information including the predetermined range (para [0121], In 4-10).

As to claims 19, 20, 21, 22, 30-33, they are apparatus claims 8, 9; therefore, they are rejected for the same reasons as claims 8, 9 above.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272-3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR of Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

August 21, 2008

/Li B. Zhen/ Primary Examiner, Art Unit 2194